



# Ultrabond Eco V4SP Fiber

Very high performance  
fibre-reinforced rubber  
and PVC adhesive



[www.blauer-engel.de/uz113](http://www.blauer-engel.de/uz113)



## WHERE TO USE

Highly shear resistant, hard set, wet-bed dispersion adhesive, specific for rubber floorings. Also suitable as universal adhesive for PVC and all common resilient and textiles floor covering types.

For use on floors in interior applications. Suitable on:  
– level, absorbent substrates;  
– underfloor heating systems.

Improved by the addition of fibres, therefore particularly suitable for heavy wear use in domestic, commercial and industrial locations (e.g hospitals, shopping centres, airports, industrial buildings, etc.).

It can be used for the installation of flooring subjected to stresses from chair castors according to EN 12529.

## Some application examples

Use **Ultrabond Eco V4SP Fiber** for bonding:

- rubber floorings with smooth or bush hammered surface (sheets and tiles, including multilayer floor coverings with acoustic rubber or foam backing).

Also suitable for bonding:

- homogeneous and heterogeneous PVC floor coverings, sheets and tiles;
- CV and multilayer PVC floor coverings;
- LVT (“Luxury Vinyl Tiles”);
- semi-flexible vinyl floor tiles (VCT);
- textile floor coverings with all common backings (latex-primed, PVC and polyurethane foam, natural jute and Action-Bac® backed carpets, etc.);

- needle-punch woven flooring also in latex;
- flocked textile flooring;
- linoleum with natural jute backing;
- polyurethane, polyolefin and synthetic back linoleum flooring;
- polyolefin-based and chlorine-free floor coverings;
- PUR floor coverings.

## TECHNICAL CHARACTERISTICS

**Ultrabond Eco V4SP Fiber** is a fibre-reinforced synthetic polymer-based adhesive in wet-bed dispersion, formulated in a ready to use light beige paste. The addition of fibres reduces the residual indentation of elastic floorings to a minimum; in the meantime, the adhesive performs better in terms of shear and peel adhesion strength, as well as dimensional stability.

Product properties:

- very easy to apply;
- low to no waiting time;
- excellent wetting even with difficult coverings;
- high peel and shear strength;
- very good dimensional stability;
- prevents open joints;
- exposure to chair castors in accordance with DIN EN 12529;

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Application of Ultrabond Eco V4 SP Fiber on a substrate



Installation of rubber tiles



Application of Ultrabond Eco V4 SP Fiber on a wall

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Consistency:	creamy paste
Colour:	pale beige
Density (g/cm <sup>3</sup> ):	1.20
pH:	7.0
– EMICODE: – Blauer Engel:	EC1 Plus - very low emission DE-UZ 113 For further information, please refer to the Safety Data Sheet

### APPLICATION DATA (at +23°C - 50% R.H.)

Application temperature range:	from +15°C to +35°C
Waiting time:	0-10 minutes
Open time:	20-30 minutes
Set to light foot traffic:	3-5 hours
Ready for use:	24-48 hours

### FINAL PERFORMANCE DATA

- PEEL 90° adhesion test according to EN 1372 (N/mm):
- homogeneous PVC:
  - heterogeneous PVC:
  - rubber:
  - linoleum:
  - carpet with Action-Bac®:

} in compliance with EN 14259

- not inflammable;
- EMICODE EC1 Plus (very low emission).

### RECOMMENDATIONS

- Install in recommended temperatures, normally between +15°C and +35°C.
- Do not install on substrates not protected from rising damp.
- Use **Adesilex G19** or **Adesilex G20** in the event of extreme temperatures due to solar radiation, intense mechanical stress by lift truck, forklift, etc. or moisture from above (in particular when the floor coverings are not welded or sealed).
- In case of multilayer cork planks with PVC backing, use **Ultrabond Eco 4 LVT**.

### APPLICATION PROCEDURE

#### Preparation of the substrate

Substrates must be dry, level, sound, mechanically strong, free of dust, loose particles, cracks, paints, wax, oil, rust, traces of gypsum or other products that can interfere with bonding.

On non-absorbent substrates, apply smoothing compound to a minimum thickness of 2 mm.

Commonly, the moisture content must be the one foreseen by the regulations of each country.

It is essential to make sure there is no rising damp present. Unbonded screeds laid over light-weight concrete or over insulation and screeds laid directly onto earth must be separated by a vapour barrier to prevent rising damp.

To repair cracks in the substrate, consolidate and waterproof screeds, form new fast-drying screeds and level uneven substrates, please refer to the relevant technical documentation or contact the MAPEI Technical Services Department.

#### Acclimatisation

Before starting the installation, make sure that the floor or wall covering and the substrate are acclimatised to the recommended temperatures and R.H.

#### Spreading the adhesive

**Ultrabond Eco V4SP Fiber** is ready to use and does not need any preparation. Before using, stir the adhesive in the bucket. Apply the adhesive evenly to the substrate with a suitable notched trowel.

## Installing the flooring

Follow the manufacturer's instructions.  
Wet bonding (on absorbent substrates)

Leave a waiting time according to the application quantity, climatic conditions, substrate absorbency and type of covering. Only apply as much adhesive as can be covered within the open time and with good transfer to the backing of the covering. Lay in covering with short waiting time into the still wet adhesive bed: the adhesive ridges have to be impressed.

Take care to avoid air pockets and carefully rub the floor covering down to ensure good adhesive transfer to the backing.

Avoid excessive stress at the seams. After some minutes installing the floor covering, it is always necessary to carefully roll it down again or to firmly rub it down.

**Note:** waiting and open time may vary depending on temperature, relative humidity and absorbency of the substrate. They will be shorter at higher temperatures and lower humidity, but longer at lower temperatures, higher humidity and with low-absorbent substrates.

## Cleaning

While still wet, **Ultrabond Eco V4SP Fiber** can be cleaned from floor coverings, tools, hands and clothing with water. When dry, clean with alcohol or a suitable solvent.

## CONSUMPTION

Consumption varies with uniformity of substrate, the back of the flooring and type of trowel used.

MAPEI trowel no. 1: approx. 250-300 g/m<sup>2</sup>  
MAPEI trowel no. 2: approx. 350-450 g/m<sup>2</sup>  
Trowel TKB A1/A2: approx. 200-300 g/m<sup>2</sup>  
Trowel TKB B1: approx. 300-350 g/m<sup>2</sup>  
Trowel TKB B2: approx. 350-450 g/m<sup>2</sup>

## PACKAGING

**Ultrabond Eco V4SP Fiber** is available in 16 kg drums.

## STORAGE

Under normal conditions, **Ultrabond Eco V4SP Fiber** is stable for at least 12 months in its original sealed packaging. Avoid prolonged exposure to frost.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Ultrabond Eco V4SP Fiber** is not considered dangerous according to the current regulation regarding the classification of mixtures. It is recommended to wear protective gloves and goggles and to take the usual precautions for handling chemicals.

For further and complete information about the safe use of our product please refer to the latest version of our Safety Data Sheet.

Keep out of the reach of children. Ensure good ventilation during and after use and drying. Do not eat, drink or smoke when using this product. In case of contact with

skin or eyes, rinse immediately with plenty of water. Do not allow product to reach sewage system, water course or soil. Clean tools with soap and water immediately after use. Give only empty containers to recycling. Dried product residues may be disposed of as domestic waste. Product contains: BIT and CIT/MIT (3:1). For information for allergic people or the Technical Data Sheet, please call: +39/02/37673.1.

*The product contains:*

water, mineral and fibre fillers, binders, additive, preservatives (VdI-RL 01/June 2018).

PRODUCT FOR PROFESSIONAL USE.

## WARNING

*Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.*

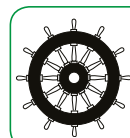
Please refer to the current version of the Technical Data Sheet, available from our website [www.mapei.com](http://www.mapei.com)

## LEGAL NOTICE

*The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.*

*The most up-to-date TDS can be downloaded from our website [www.mapei.com](http://www.mapei.com).*

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This symbol is a conformity mark which prove that the product is suitable for marine equipment in compliance with the **Marine Equipment Directive (MED) 96/98/EC** and subsequent amendments. For the products with this marking, MAPEI is also allowed to affix the U.S Coast Guard approval number as allowed by the "Agreement between the European Community and the United States of America on mutual recognition of certificates of conformity for marine equipment" signed February 27th, 2004.



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gesellschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.

**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**



Application of rubber sheeting on a wall



An example of installing rubber flooring in a school: Municipal Infants School, Carobbio degli Angeli (Bergamo)

# Ultrabond Eco V4SP Fiber



Fondazione Nemo  
Niguarda Hospital -  
Milan - Italy



Stadium Fortaleza -  
Brasile



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